

# WASHINGTON STATE DEPARTMENT OF HEALTH OFFICE OF FOOD SAFETY AND SHELLFISH PROGRAMS

## ANNUAL GROWING AREA REVIEW

**PREPARED BY:** Donald J. Melvin, Environmental Specialist  
**AREA:** Dungeness Bay  
**YEAR ENDING:** December 31, 2005  
**CLASSIFICATION:** Approved, Conditionally Approved, Prohibited

### ACTIVITIES IN THE GROWING AREA IN 2005:

The area was sampled twelve times during 2005 following the National Shellfish Sanitation Program's (NSSP) systematic random sampling criteria. The Conditionally Approved portion of the area was closed from 11/1/2005 through 2/1/2006 in accordance with the conditional area management plan. A routine evaluation of the shoreline and upland conditions around the Dungeness Bay shellfish growing area was completed during 2005. DOH used information obtained from Clallam County, the Jamestown S' Klallam Tribe, and the Washington Department of Ecology. Thirteen shoreline discharges and three agricultural activities were evaluated by DOH during this study. No direct or indirect impacts were identified that would warrant a change in the existing classifications or management criteria.

### ANALYTICAL RESULTS OF WATER SAMPLES:

Table #1 is an analysis of the most recent 30 samples collected from each of the Dungeness Bay sampling stations in the "approved" and "prohibited" areas. Table #1 shows that the "approved" stations meet the water quality standards for this classification. Station #115 passes but is of concern due to elevated levels of bacteria. Table #2 is an analysis of the most recent 30 samples from each "conditionally approved" area stations excluding samples collected during the months of November, December, and January. All stations pass the water quality standard in the Table #2 summary however station #106 and station #108 are of concern due to elevated bacteria levels.

### CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:

The area is impacted by non-point pollution associated with stormwater runoff, on-site sewage disposal, animal waste management practices, and wildlife.

### CLASSIFICATION STATUS:

- ☐ Well within the classification standards
- ☒ Meets standards but some concerns
- ☐ Meets standards but threatened with a downgrade in classification
- ☐ Fails to meet classification standards

### REMARKS AND RECOMMENDATIONS:

All stations currently meet the water quality standards for the existing classifications. Matriotti Creek is a tributary to the Dungeness River and is on the 303d list for fecal coliform.

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**MANAGEMENT PLAN EVALUATION – BRIEFLY DESCRIBE THE FOLLOWING COMPONENTS:**

- 1. Have all parties involved complied with the conditions in the management plan .....Yes
- 2. Has reporting been adequate to manage the conditional area .....Yes
- 3. Does the area consistently meet approved area criteria when it is open for harvest .....Yes
- 4. Has a field inspection of critical pollution sources been conducted.....Yes

**TABLE 1****SUMMARY OF MARINE WATER DATA (SRS)**Growing Area: **DUNGENESS BAY**Classification: **Approved,Prohibited**From **06/11/2003** To **12/07/2005****FECAL COLIFORM ORGANISMS/100 ML**

<b>Station Number</b>	<b>Classification</b>	<b>Number of Samples</b>	<b>Range</b>	<b>Geometric Mean</b>	<b>Est. 90th Percentile</b>	<b>Meets Std.</b>
<b>103</b>	<b>Approved</b>	<b>30</b>	<b>1.7 - 49.0</b>	<b>3.2</b>	<b>10.0</b>	<b>Yes</b>
<b>115</b>	<b>Approved</b>	<b>31</b>	<b>1.7 - 110.0</b>	<b>4.9</b>	<b>22.0</b>	<b>Yes</b>
<b>104</b>	<b>Prohibited</b>	<b>31</b>	<b>1.7 - 95.0</b>	<b>12.8</b>	<b>64.0</b>	<b>No</b>
<b>105</b>	<b>Prohibited</b>	<b>31</b>	<b>1.7 - 49.0</b>	<b>5.4</b>	<b>25.0</b>	<b>Yes</b>
<b>113</b>	<b>Prohibited</b>	<b>31</b>	<b>1.7 - 920.0</b>	<b>13.2</b>	<b>100.0</b>	<b>No</b>
<b>114</b>	<b>Prohibited</b>	<b>31</b>	<b>1.7 - 110.0</b>	<b>6.5</b>	<b>35.0</b>	<b>Yes</b>

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

† All samples have been verified.

## TABLE 2

### SUMMARY OF MARINE WATER DATA (SRS) EXCLUDING SAMPLES COLLECTED DURING THE MONTHS OF NOVEMBER, DECEMBER, AND JANUARY

Growing Area: **DUNGENESS BAY**

Classification: **Conditionally Approved**

From **08/23/2001** To **10/12/2005**

#### FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
106	Conditionally Approved	31	1.7 - 49.0	5.7	26.0	Yes
107	Conditionally Approved	30	1.7 - 130.0	3.7	16.0	Yes
108	Conditionally Approved	31	1.7 - 220.0	4.7	29.0	Yes
109	Conditionally Approved	31	1.7 - 46.0	3.1	10.0	Yes
110	Conditionally Approved	31	1.7 - 79.0	4.2	19.0	Yes
111	Conditionally Approved	31	1.7 - 49.0	4.2	17.0	Yes
112	Conditionally Approved	30	1.7 - 130.0	3.1	11.0	Yes

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

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# DUNGENESS BAY

## STATION LOCATIONS AND CLASSIFICATION BOUNDARIES

